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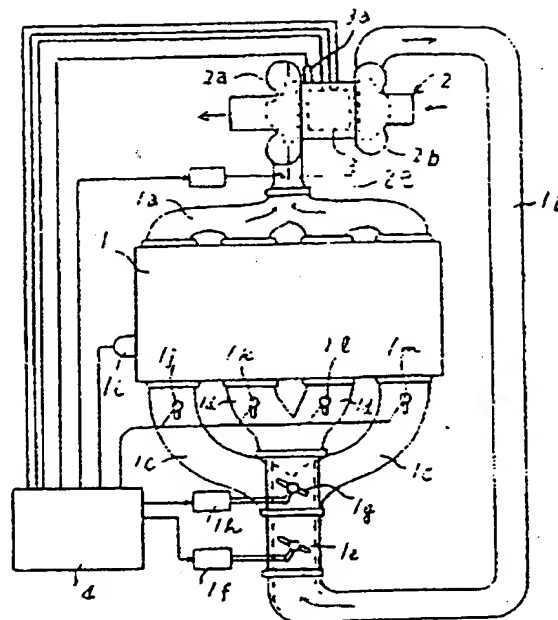
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TITLE : TURBO CHARGER WITH ROTARY
ELECTRIC MACHINE



ABSTRACT : PURPOSE: To enable the generated output of a rotary electric machine to be increased by controlling a divided exhaust flow path of a turbine scroll and the number of actually working cylinders of an engine when exhaust gas amount in low load is few and the generated output of rotary electric machine is small.

CONSTITUTION: In a turbine section 2a of a turbo-charger 2 mounting a rotary electric machine 3 on a rotary shaft is divided a turbine scroll 2c into two systems of exhaust flow path by a partition wall, and an exhaust butterfly 2e is mounted to one exhaust flow path. Also, inside the connection of intake manifolds 1c, 1d and an intake pipe 1b are mounted intake butterflies 1e, 1g. In low load on an engine, the generated output of rotary electric machine 3 is measured to be compared with a set value. When the measured output is less than the set value, the exhaust butterfly 2e is closed to increase exhaust gas flow speed. When said output does not reach a predetermined output thereafter, the intake butterflies 1e, 1g are controlled so that part of cylinders are operated as pump cylinder.

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